

Weekly Science Report

February 16, 2024

“The City is lost, but I live.”

Last words of Constantine XI Dragases, last Emperor of the Byzantine Empire

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Introduction

Steve Detwiler created this publication with the support of Graham Hancock and the late John Anthony West to share news and information on various disciplines to include but not limited to paleontology, space sciences, genetics, and archaeology. His goal behind sharing this publication has always been very simple, by sharing knowledge we can make our world a better place. This publication is Mr. Detwiler's contribution to bring people together and share ideas and discoveries with his fellow humans.

I hope you enjoy this publication and that the content challenges and inspires you!

The Weekly Science Report is also on social media at:

- Facebook: <https://www.facebook.com/weeklysciencertpt/>
- Twitter: <https://twitter.com/wklysciencertpt>

News Articles

Paleontology, Evolution and Prehistoric Studies

Clovis Hare-Bone Bead Identified in Wyoming

<https://www.archaeology.org/news/12158-240214-wyoming-clovis-bead>

Megalithic “Blinkerwall” Found in the Baltic Sea

<https://www.archaeology.org/news/12157-240214-baltic-sea-blinkerwall>

DNA Analysis Tracks Origins of Scandinavia’s First Farmers

<https://www.archaeology.org/news/12154-240213-scandinavia-first-farmers>

Anthropologists' research unveils early stone plaza in the Andes

<https://phys.org/news/2024-02-anthropologists-unveils-early-stone-plaza.html>

How great fossil sites shape our understanding of evolutionary relationships between fossil groups

<https://phys.org/news/2024-02-great-fossil-sites-evolutionary-relationships.html>

Dinosaurs dominated our planet not because of their massive size or fearsome teeth — but thanks to the way they walked

<https://www.livescience.com/animals/dinosaurs/dinosaurs-dominated-our-planet-not-because-of-their-massive-size-or-fearsome-teeth-but-thanks-to-the-way-they-walked>

Bird diversity flourished before dinosaurs died out, new evolutionary timeline suggests

<https://www.science.org/content/article/bird-diversity-flourished-dinosaurs-died-out-new-evolutionary-timeline-suggests>

Paleontological analysis shows renowned fossil thought to show soft tissue preservation is in fact just paint

https://phys.org/news/2024-02-paleontological-analysis-renowned-fossil-thought.html?fbclid=IwAR3HeiCPhVYCzyZqR1KqyFXi65c-wvYJyes-DURDaktLwYulDpbHfrGcBVc#google_vignette

History

Freedom Fort

<https://www.archaeology.org/issues/543-2403/features/12123-florida-colonial-fort-mose>

Family Relationships in Thailand's Log Coffin Culture Detected

<https://www.archaeology.org/news/12155-240213-thailand-log-coffin>

Why Is the Year of the Dragon Considered So Lucky?

<https://www.smithsonianmag.com/history/why-is-the-year-of-the-dragon-considered-so-lucky-180983764/>

A Brief History of How Carnival Is Celebrated Around the World

<https://www.smithsonianmag.com/history/a-brief-history-of-how-carnival-is-celebrated-around-the-world-180983771/>

This Peaceful Nature Sanctuary in Washington, D.C. Sits on the Ruins of a Plantation

<https://www.smithsonianmag.com/history/this-peaceful-nature-sanctuary-in-washington-dc-sits-on-the-ruins-of-a-plantation-180983716/>

What a Teacher's Letters Reveal About Robert Smalls, Who Stole a Confederate Ship to Secure His Freedom From Slavery

<https://www.smithsonianmag.com/history/what-a-teachers-letters-reveal-about-robert-smalls-who-stole-a-confederate-ship-to-secure-his-freedom-from-slavery-180983758/>

Undeciphered script from Easter Island may predate European colonization

https://www.livescience.com/archaeology/undeciphered-script-from-easter-island-may-predate-european-colonization?utm_medium=social&utm_content=livescience&utm_campaign=socialflow&utm_source=facebook.com&fbclid=IwAR1xE6-6ppcTXxokwQGmOixZ4ry2kLiUj6FYyAdzBof2dj1q6Py0Kp-6SM

Archaeology

Portrait of an Ancient Ax

<https://www.archaeology.org/issues/538-2401/digs/11947-france-painting-acheulean-ax>

Ancient rock art in Argentinian cave may have transmitted information across 100 generations

<https://www.livescience.com/archaeology/ancient-rock-art-in-argentinian-cave-may-have-transmitted-information-across-100-generations>

Ancient tomb really does hold Alexander the Great's father, controversial study claims

<https://www.livescience.com/archaeology/ancient-tomb-really-does-hold-alexander-the-greats-father-controversial-study-claims>

Egyptology

When did the Egyptians start using hieroglyphs?

<https://www.livescience.com/archaeology/ancient-egyptians/when-did-the-egyptians-start-using-hieroglyphs>

General Science

Thermally engineering templates for highly ordered self-assembled materials
<https://phys.org/news/2024-02-thermally-templates-highly-materials.html>

Physics, Earth and Space Sciences

NASA releases otherworldly footage of solar eclipse on Mars

<https://www.livescience.com/space/mars/nasa-releases-otherworldly-footage-of-solar-eclipse-on-mars>

Saturn's largest moon most likely uninhabitable

<https://phys.org/news/2024-02-saturn-largest-moon-uninhabitable.html>

'Beyond what's possible': New JWST observations unearth mysterious ancient galaxy

<https://phys.org/news/2024-02-jwst-unearth-mysterious-ancient-galaxy.html>

NASA telescopes find new clues about mysterious deep space signals

<https://phys.org/news/2024-02-nasa-telescopes-clues-mysterious-deep.html>

Are we about to find out the moon's origin? Japan's space agency says it may now have clues

<https://phys.org/news/2024-02-moon-japan-space-agency-clues.html>

Passing stars altered orbital evolution of Earth and other planets, astronomers find

<https://phys.org/news/2024-02-stars-orbital-evolution-earth-planets.html>

A dead satellite will crash back to Earth this month. What to know.

<https://www.usatoday.com/story/graphics/2024/02/15/european-space-agency-ers-2-satellite-crash/72569187007/>

Northern lights could reach parts of US amid geomagnetic storm watches: What to know

<https://www.woodtv.com/news/northern-lights-could-reach-parts-of-us-amid-geomagnetic-storm-watches-what-to-know/>

Scientists: Icy Moon of Saturn Likely Has an Underground Ocean

<https://learningenglish.voanews.com/a/scientists-icy-moon-of-saturn-likely-has-an-underground-ocean/7484026.html>

Water detected on surface of asteroids for first time, thanks to defunct NASA mission

<https://www.cbsnews.com/news/asteroids-water-nasa-german-space-agency-stratospheric-observatory-for-infrared-astronomy/>

SpaceX launches classified USSF-124 satellites on secret Valentine's Day mission for US Space Force

<https://www.space.com/spacex-space-force-ussf-124-mission-launch>

'Odie' lunar mission takes off, aiming for historic US moon landing

<https://www.cnn.com/2024/02/15/world/moon-lander-launch-odysseus-nasa-scn/index.html>

SETI Institute employs a novel ellipsoid technique when searching for signals from distant civilizations

https://phys.org/news/2024-02-seti-employs-ellipsoid-technique-distant.html?fbclid=IwAR0j4_cJXZxK0JxZ-IOah9xsjOM90c1q340yuuKK5x4i3ryzGbGB7ca7QSS#google_vignette

Russia's pursuit of a space-based nuclear weapon raises national security concerns in Washington

<https://www.nbcnews.com/politics/national-security/house-intel-chair-warns-serious-national-security-threat-ahead-planned-rcna138848>

NASA looking for 4 volunteers to spend a year living and working inside a Mars simulator
<https://www.cbsnews.com/news/nasa-mars-simulator-4-volunteers-to-spend-a-year-living-and-working-inside-3d-printed-dune-alpha/?ftag=CNM-00-10aab6a&linkId=329208342&fbclid=IwAR2rrPIBYMnzhVAPxLv6dlozhEGwvt4XUT7saujanhH2mfuWTgEXLtq7uQA>

Environment, Climate Change and Alternative Energy Sources

By growing animal cells in rice grains, scientists dish up hybrid food
<https://www.eurekalert.org/news-releases/1033922>

Red nets signal “stop” to insect pests, reduce need for insecticides
<https://www.eurekalert.org/news-releases/1033980>

Nearly 15% of Americans deny climate change is real, AI study finds
<https://www.eurekalert.org/news-releases/1033319>

Amazon rainforest at the threshold: loss of forest worsens climate change
<https://www.eurekalert.org/news-releases/1034301>

California-size Antarctic ice sheet once thought stable may actually be at tipping point for collapse
<https://www.livescience.com/planet-earth/climate-change/california-size-antarctic-ice-sheet-once-thought-stable-may-actually-be-at-tipping-point-for-collapse>

This study has seen the future of Louisiana's coast. It's a sobering glimpse of what's ahead.
https://www.nola.com/news/environment/new-study-sees-the-sobering-future-of-louisianas-coast/article_2a27f818-cb7d-11ee-a5b0-736ab3036500.html

Biological, Genetics and Medical Sciences

Massive endangered whale washes up on Oregon beach entangled, emaciated and covered in wounds from killer whales

https://www.cbsnews.com/news/endangered-whale-dead-oregon-beach-entangled-emaciated-wounds-killer-whales/?ftag=CNM-00-10aab6a&linkId=323082391&fbclid=IwAR2KSyRmpC6sOLYD6J8N5xib_GhVAeT5ar1P1-SkPxaJebq-JWpkJwXc8w4

Discovery of new plant protein fold may be seed for anti-cancer drugs

<https://phys.org/news/2024-02-discovery-protein-seed-anti-cancer.html>

Satellites unveil the size and nature of the world's coral reefs

<https://phys.org/news/2024-02-satellites-unveil-size-nature-world.html>

Other

A once-ignored community of science sleuths now has the research community on its heels
https://www.nbcnews.com/science/science-news/-ignored-community-science-sleuths-now-research-community-heels-rcna136946?cid=sm_npd_nn_fb_ma&utm_campaign=trueanthem&utm_medium=social&utm_source=facebook&fbclid=IwAR3iPm_O2sLHPeGwQkn9Rq5AmVFdF0-menUMdMPmiAddsp4Awq7vb8V9ITM&branch_match_id=1286440453018337656&branch_referrer=H4sIAAAAAAAAAA8soKSkottLXz0tKzkstL9ZLLCjQy8nMy9b3DSyNiHB1jkrySLJPS0rOyUyx9Sx3DDL0DMiN9zcq9vEISHUvD8zOswwwqNHXMDXNLcTPQzU3NC%2FVN8Q3IzXRMSSkuMHESLzQvS7IIs8wJ8QUArSk0C2kAAA%3D

Area 51: What is it and what goes on there?

https://www.space.com/area-51-what-is-it?utm_content=space.com&utm_campaign=socialflow&utm_source=facebook.com&utm_medium=social&fbclid=IwAR0gbB21x6AtShYv71ZWBE_mbxmjw5XHuOvEjY1JXjXtbbkwJdqwuaZFng

Additional Informational

New NASA Mission will Study Ultraviolet Sky, Stars, Stellar Explosions

<https://www.nasa.gov/news-release/new-nasa-mission-will-study-ultraviolet-sky-stars-stellar-explosions/>

How Can We Create a Manual for Civilization?

https://longnow.org/ideas/how-can-we-create-a-manual-for-civilization/?fbclid=IwAR1icN-7ttfqsGYuGMHywy-DMsnbpoxV1_oVgK7SO1tPsRu91qtvuHE4ITU

Amache National Historic Site Formally Established as America's Newest National Park

<https://www.nps.gov/orgs/1207/amache-national-historic-site-formally-established-as-america-s-newest-national-park.htm>